

FIG. 1

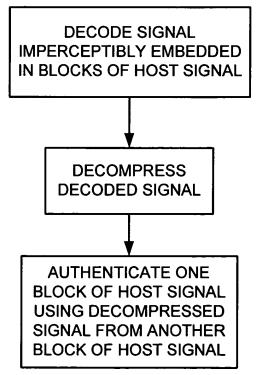


FIG. 3

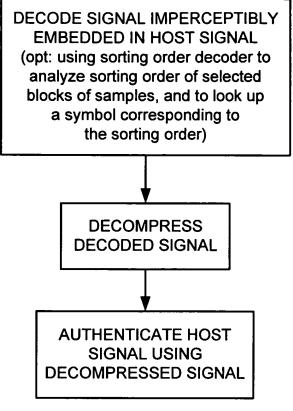
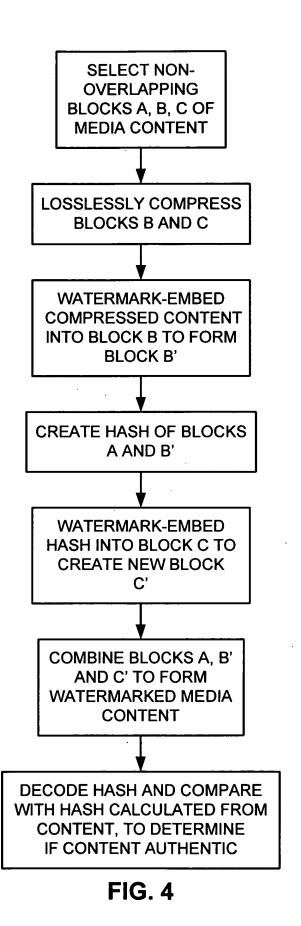


FIG. 2

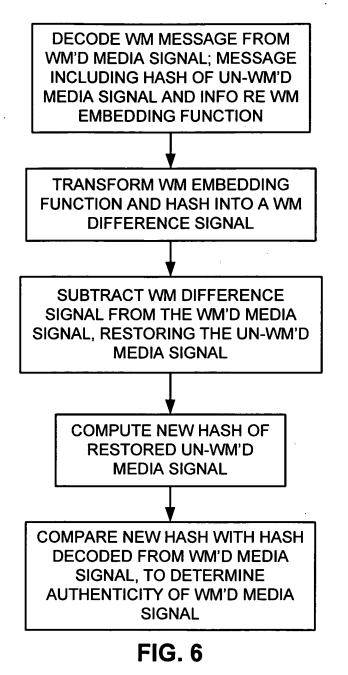


EMBED WM MESSAGE SIGNAL
THAT INCLUDES INFO ABOUT
WM EMBEDDER FUNCTION
(opt: also including hash),
INTO REF MEDIA SIGNAL CREATING WM'D REF SIGNAL

SUBTRACT REF SIGNAL FROM
WM'D REF SIGNAL TO FORM
DIFFERENCE SIGNAL

ADD DIFFERENCE SIGNAL TO
HOST MEDIA SIGNAL TO EMBED
WM IN HOST MEDIA SIGNAL

FIG. 5

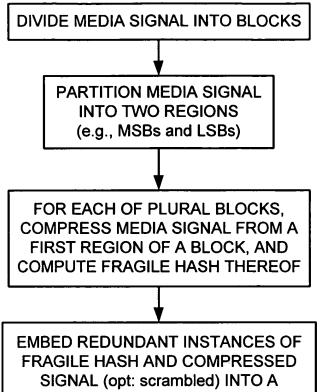


PARTITION MEDIA SIGNAL INTO BLOCKS

PARTITION MEDIA SIGNAL INTO TWO REGIONS

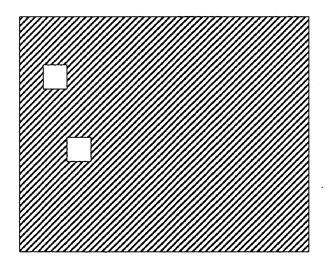
FOR PLURAL BLOCKS, COMPRESS MEDIA SIGNAL FROM A FIRST REGION OF A BLOCK AND EMBED REDUNDANT INSTANCES OF COMPRESSED SIGNAL INTO A SECOND REGION OF AT LEAST TWO BLOCKS

FIG. 7



FRAGILE HASH AND COMPRESSE SIGNAL (opt: scrambled) INTO A SECOND REGION (e.g., LSBs) OF AT LEAST TWO BLOCKS (e.g., mapped to different blocks per a permutation function)

FIG. 8



PARTITION BLOCKS INTO REGIONS

FOR PLURAL BLOCKS, EXTRACT
HIDDEN COMPRESSED BIT
STREAMS OF A FIRST REGION OF
THE BLOCKS FROM A SECOND
REGIONS IN THE BLOCKS

FOR PLURAL BLOCKS, EVALUATE WHETHER A BLOCK IS ALTERED BY COMPARING EXTRACTED COMPRESSED BIT STREAMS FOR A BLOCK WITH THE MEDIA SIGNAL IN THE FIRST REGION OF THE BLOCK

WHEN AN ALTERED BLOCK IS
DETECTED, USE A FRAGILE HASH
TO IDENTIFY LOCATION OF
ALTERED DATA, AND USE AN
EXTRACTED COMPRESSED BIT
STREAM TO REPLACE
ALTERED DATA

FIG. 9

FIG. 10